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J	oseph M	. THOMPSON	and Rick A. ANI	DERSON	Hiss /DO	EOILIEV	the following items and other information:		
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2.		This is a SEC	OND or SUBSEC	QUENT submission of iter	ns conce	rning a fil	ling under 35 U.S.C. 371.		
3.							. 371(f)) at any time rather than delay . 371(b) and PCT Articles 22 and 39(1).		
4.	⊠-	A proper Dem priority date.	and for Internation	onal Preliminary Examina	tion was r	made by	the 19 th month from the earliest claimed		
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8.		A translation of the amendments to the claims under PCT Article 19 (35 U.S.C. 371(c)(3)).							
9.		An oath or declaration of the inventor(s) (35 U.S.C. 371(c)(4)).							
10.		A translation of 371(c)(5)).	of the annexes to	the International Prelimir	nary Exam	nination F	Report under PCT Article 36 (35 U.S.C.		
11.		Applicant cla	ims small entity	status under 37 CFR 1	.27 .				
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12.		An Information Disclosure Statement under 37 CFR 1.97 and 1.98.							
13.		An assignment document for recording. A separate cover sheet in compliance with 37 CFR 3.28 and 3.31 is included.							
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001.1125213.1 FORM PTO-1390 (Modified) I hereby certify that the attached documents, pursuant to 37 CFR 1.10, are being deposited as "Express Mail" this date with the United States Postal Service in an envelope addressed to the Assistant Commissioner for Patents, Washington, DC 20231:

By American Amer

Signature of person depositing Express Mail

U.S. APPLICATION NO (If kn Not yet available	own, seq 37 64.FQ	59 3	4 INTERNATIO		PPLICATION N	0		ATTORNEY'S DOCKET 026032-3872	NUMBER	
18. A The following fees are submitted:							CALCULATIO	NS	PTO USE ONLY	
Basic National Fee (37 CFR 1.492(a)(1)-(5):										
Search Report has been prepared by the EPO or JPO\$890.00							_			
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WO 01/15931

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LOAD FLOOR SYSTEM

TECHNICAL FIELD OF THE INVENTION

This invention generally relates to load floor systems. More specifically, this invention relates to load floor systems for a vehicle with a seat assembly, a structural member under the seat assembly, and a floor space adjacent the seat assembly.

BACKGROUND

One of the recent innovations associated with pickup truck design is the development of the extended cab with a second row of forward-facing rear seats. Unlike the so-called cab or crew pickup truck designs with four full doors, these extended cab pickup trucks have half doors that swing opposite the front doors and a slightly smaller interior space.

One of the problems associated with placing a second row of seats in an extended cab pickup truck is that it reduces the storage capacity of the bed of the pickup truck if the overall vehicle length remains the same. That is, the presence of the rear seats interferes with the ability to store objects such as toolboxes, machine parts and other cargo that require relatively large flat surfaces for storage. While effort has been placed into designing seats that could be removed or placed in a retracted position to thereby increase the usable space within the extended cab pickup truck, the resulting area is relatively small and the surface upon which cargo could be placed is generally non-planar and therefore hinders the storage of relatively large items.

Accordingly, it is desirable to have a load floor system that could be used to accommodate relatively large amount of cargo when the rear seats are not being used. At the same time, it would be desirable to have a load floor system that does not interfere with the occupants of the rear seats when the rear seats are being used.

SUMMARY OF THE INVENTION

Accordingly, this invention provides for a load floor system that overcomes the problems and disadvantages of the conventional techniques in the art. The invention also provides for a load floor system for a vehicle with a seat assembly, a structural member under the seat assembly, and a floor space adjacent the seat assembly.

Briefly, the invention includes a retractable panel coupled to the structural member, a first link coupled to the retractable panel, and a second link coupled to the retractable panel. The

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retractable panel, the first link, and the second link cooperate as a portion of a four-bar mechanism to translate the retractable panel from a retracted position under the seat assembly to an extended position over the floor space thereby forming a load floor.

BRIEF DESCRIPTION OF THE DRAWINGS

Further features and advantages of the invention will become apparent from the following discussion and accompanying drawings in which:

- FIG. 1 is a perspective view of a load floor system according to the preferred embodiment of the present invention, shown in a retracted position;
- FIG. 2 is a perspective view of the floor pan with a set of storable seats in a stored position:
- FIG. 3 is a perspective view of the load floor system according to the preferred embodiment of the present invention, shown in an extended position;
- FIG. 4 is a side view of the load floor system of FIG. 3, shown in both the retracted position and the extended position;
- FIG. 5 is a side view of the load floor system of FIGS. 3 and 4, shown in both the retracted position and the extended position, and shown again with a darker color during a transition between the retracted position and the extended position;
- FIG. 6 is a perspective view of a load floor system according to a first alternative embodiment of the present invention, shown in an extended position;
- FIG. 7 is a side view of the load floor system of FIG. 6, shown in both a retracted position and the extended position;
- FIG. 8 is a side view of the load floor system of FIGS. 6 and 7, shown in both the retracted position and the extended position, and shown again with a darker color during a transition between the retracted position and the extended position;
- FIG. 9 is a perspective view of a load floor system according to a second alternative embodiment of the present invention, shown in an extended position;
- FIG. 10 is a side view of the load floor system of FIG. 9, shown in a retracted position; and
- FIG. 11 is a side view of the load floor system of FIGS. 9 and 10, shown in the extended position.

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DETAILED DESCRIPTION OF THE PREFERRED EMBODIMENTS

The following description of the preferred embodiments are merely exemplary in nature, and are in no way intended to limit the invention or its application or uses.

As shown in FIG. 1, a load floor system 10 according to the preferred embodiment of the present invention may be installed in the rear portion of an extended-cab pickup truck under a set of forward-facing storable seats 12 with a "60/40 split." The load floor system 10, of course, can be used in other environments, such as under side-facing jump seats of pickup trucks, under removable or retractable seats of a station wagon, sport utility vehicle or van, or in any other transporter with storable seats. The term "storable seat" includes seat assemblies that have a retractable or removable seat cushion. The term "60/40 split" refers to a common seating assembly that is split transversely in two sections, with a "sixty-percent section" for one or two passengers, and a "forty-percent section" for one passenger. Seating assemblies with a "60/40 split" allow one section to be used as a seat, and another to be stored. The load floor system 10 of the present invention can also be used under other seating assemblies, such as bench seats and so-called bucket seats. The system 10, however, is optimized as a two-section unit with a "60/40 split" installed under the set of forward-facing storable seats 12 with a corresponding "60/40 split." Accordingly, these storable seats 12 will provide the background environment in the following description. Further, since the "sixty-percent section" of the load floor system 10 is nearly identical to the "forty-percent section", only the "forty-percent section" will be discussed.

The load floor system 10 may be used with a structural member 14 located under the storable seat cushion 16 near a front portion 18 of the storable seat cushion 16. As shown in FIG. 2, the structural member 14 encloses two sides of a space or cavity 20, which is made accessible through the load floor system 10. The cavity 20 is further bound by a power train tunnel 22, by a so-called "waterfall" 24 between a lowered floor pan 26 and a raised floor pan 28, on the bottom by the lowered floor pan 26, and on the top by the storable seat cushion 16.

As shown in FIG. 3, the load floor system 10 of the preferred embodiment of the present invention includes a secondary panel 30, an access panel 32, an upper link 34, and a retractable panel 36. The load floor system 10 is movable between a retracted position that does not encroach on the leg area of the vehicle (shown in FIG. 1), and an extended position that provides a load floor 38 and that allows access to the cavity 20 (shown in FIG. 3).

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In the retracted position, the retractable panel 36 abuts the structural member 14 and neatly tucks under the storable seat cushion 16 on the upper link 34. The load floor system 10 is nearly hidden in this position and does not encroach on the leg area or floor space of the vehicle.

In the extended position, the secondary panel 30, the access panel 32, the upper link 34, and the retractable panel 36 all cooperate to form the load floor 38, as best shown in FIG. 4. The secondary panel 30 is supported by a structural bracket 40 at one end and by the structural member 14 at the other end. Between the structural bracket 40 and the structural member 14, the secondary panel 30 forms a recessed portion 42 that accommodates and supports the upper link 34, as detailed below. The retractable panel 36 is supported by the connection to the upper link 34 at one end and by a leg panel 44 attached to the retractable panel 36 at the other end. The load floor 38 provides a generally flat surface to secure objects such as toolboxes, machine parts, or other cargo. The load floor 38 may include a tie-down 46 or other devices, such as hooks, clamps, or VELCRO® strips, which function to secure objects to the load floor 38.

As best shown in FIG. 5, the load floor system 10 incorporates a four-bar mechanism 48 to advance from the retracted position to the extended position. The four-bar mechanism 48 includes (1) the upper link 34, later referenced as a "first link", (2) the retractable panel 36, (3) and a lower link 50, later referenced as a "second link". The secondary panel 30 cooperates as the fourth link of the four-bar mechanism 48 between two fixed points 52 and 54. A hinge H1 pivots the upper link 34 to the secondary panel 30; a hinge H2 pivots the upper link 34 to the retractable panel 36; a hinge H3 pivots the retractable panel 36 to the lower link 50; and hinge H4 pivots the lower link 50 to the structural member 14. The hinges H1 and H4 are fixed points and are not displaced during the transition from the retracted position to the extended position. The hinges H2 and H3 are movable points and are displaced through arcs A1 and A2, respectively, during the transition. The hinges H2 and H3 are located in a vertical position relative to the upper link 34 such that the secondary panel 30, the upper link 34, and the retractable panel 36 form the generally flat surface of the load floor 38. The load floor system 10 may include a handle 56 to facilitate the transition of the load floor system 10 between the retracted position and the extended position. The handle 56 is recessed into the surface of the retractable panel 36, but may, in an alternative embodiment of the present invention, project from the surface of the retractable panel 36.

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As shown in FIG. 3, the access panel 32 is supported on four sides by the secondary panel 30. The access panel 32 pivots upward about the hinge H5 and allows access to the cavity 20. The access panel 32 and the secondary panel 30 enclose the cavity 20, which would otherwise be open when the storable seat cushion 16 is stored and the retractable panel 36 is extended. In this manner, the access panel 32, the secondary panel 30, the structural member 14, the waterfall 24, and the lowered floor pan 26 cooperate as a storage container 58 for smaller cargo.

The access panel 32 extends nearly the entire length of the cavity 20 to increase the accessibility of the storage container 58. To accommodate this extended length of the access panel 32, the upper link 34 contains a rearward-facing notch 60. As best shown in FIG. 4, the upper link 34 folds over the access panel 32 in the retracted position, and rests on the recessed portion 42 of the secondary panel 30 in the extended position.

The retractable panel 36 may include a beveled corner 62, as shown in FIG. 3. The beveled corner 62 of the retractable panel 36 follows the general contours of the structural member 14 in the retracted position. The beveled corner 62 and the structural member 14 are so designed to allow unimpeded egress and ingress of a passenger through a small opening of a vehicle. In a vehicle with a larger opening, the retractable panel 36 may be designed with a sharper corner.

By using the four-bar mechanism 48, the load floor system 10 advances from the retracted position to the extended position. It is anticipated, however, that several possible variations of the four-bar mechanism 48 would accomplish these functions. Two of these variations are described below with similar reference numerals signaling elements with similar physical properties and functional attributes. Further, it is anticipated that commonly known mechanical elements may be used to replace or supplement a portion or the entirety of the four-bar mechanism 48. As an example, a pin-and-track device may replace a bar of the four-bar mechanism 48.

As shown in FIG. 6, a load floor system 10' of a first alternative embodiment of the present invention includes a folding panel 64 and a retractable panel 36'. In the retracted position, the retractable panel 36' abuts the structural member 14 and neatly tucks under the storable seat cushion 16 and rests on a structural bracket 40'. The load floor system 10' is nearly hidden in this position and does not, in any manner, encroach on the leg area or floor space of

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the vehicle. In the extended position, the folding panel 64 and the retractable panel 36' cooperate to form a load floor 38', as best shown in FIG. 7. The folding panel 64 is supported by the structural bracket 40' at one end and by the connection to the retractable panel 36' at the other end. The retractable panel 36' is supported by the structural member 14 at one end and by a leg panel 44' attached to the retractable panel 36' at the other end. The load floor 38' provides a generally flat surface to secure objects such as toolboxes, machine parts, or other cargo. The load floor 38' may include a tie-down or other devices, such as hooks, clamps, or VELCRO® strips, which function to secure objects to the load floor 38'.

As best shown in FIG. 8, the load floor system 10', like the load floor system 10, incorporates a four-bar mechanism 48' to advance from the retracted position to the extended position. The four-bar mechanism 48' includes (1) a rear link 66, later referenced as a "first link", (2) the retractable panel 36', and (3) a forward link 68, later referenced as a "second link". The structural member, between two fixed points 70 and 72, forms the fourth link of the four-bar mechanism 48'. A hinge H6 pivots the rear link 66 to a rear side of the structural member 14; a hinge H7 pivots the rear link 66 to the retractable panel 36'; a hinge H8 pivots the retractable panel 36' to the forward link 68; and a hinge H9 pivots the forward link 68 to a front side of the structural member 14. The hinges H6 and H9 are fixed points and are not displaced during the transition from the retracted position to the extended position. The hinges H7 and H8 are movable points and are displaced through arcs A3 and A4, respectively, during the transition. The load floor system 10' further incorporates a hinge H10 between the folding panel 64 and the retractable panel 36' that allows the folding panel 64 to be folded to a rearward position and to form the load floor 38'. The load floor system 10' may include a handle to induce the transition of the load floor system 10' between the retracted position and the extended position.

In its rearward position, the folding panel 64 encloses the cavity 20, which would otherwise be open when the storable seat cushion 16 is stored and the retractable panel 36' is extended. In this manner, the folding panel 64, the structural member 14, the waterfall 24, and the lowered floor pan 26 cooperate as a storage container 58' for smaller cargo. In addition to allowing the folding panel 64 to be folded to a rearward position, the hinge H10 allows the folding panel 64 to be folded to a forward position. In the forward position, the folding panel 64 offers access to the storage container 58'.

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As shown in FIG. 9, a load floor system 10" of a second alternative embodiment of the present invention includes a secondary panel 30" and a retractable panel 36". In the retracted position, the retractable panel 36" neatly tucks under the storable seat cushion 16 on the secondary panel 30", as shown in FIG. 10. The load floor system 10" is nearly hidden in this position and does not encroach on the leg area or floor space of the vehicle. In the extended position, the secondary panel 30" and the retractable panel 36" cooperate to form a load floor 38", as best shown in FIG. 11. The secondary panel 30" is supported at one end by a structural bracket 40" and by the structural member 14 at the other end. The retractable panel 36" is supported by the structural member 14 at one end and by a folding leg 74 at the other end. The load floor 38" provides a generally flat surface to secure objects such as toolboxes, machine parts, or other cargo. The load floor 38" may include a tie-down or other devices, such as hooks, clamps, or VELCRO® strips, which function to secure objects to the load floor 38".

The load floor system 10", like the load floor systems 10 and 10', incorporates a four-bar mechanism 48" to advance the retractable panel 36" and the folding leg 74 from the retracted position to the extended position. The four-bar mechanism 48" includes (1) the retractable panel 36", (2) a short link 76, later referenced as a "second link", (3) a long link 78, later referenced as a "first link", and (4) the distance between two fixed points 80 and 82. A hinge H11 pivotally connects the retractable panel 36" to the secondary panel 30" about a first axis; a hinge H12 pivots the retractable panel 36" to the short link 76; a hinge H13 pivots the short link 76 to the long link 78; and a hinge H14 pivotally connects the long link 78 to the secondary panel 30" about a second axis. The hinges H11 and H14 are fixed points and are not displaced during the transition from the retracted position to the extended position. The hinges H12 and H13 are movable points and are displaced through arcs during the transition. The folding leg 74 is integrally formed with the short link 76 and is automatically extended by the four-bar mechanism 48" to an extended position during the transition of the retractable panel 36" from the retracted position to the extended position. The load floor system 10" may incorporate an access panel to allow access to the cavity 20 to form a storage container, and handle to induce the transition of the load floor system 10" between the retracted position and the extended position. Further, the load floor system 10" may be arranged wherein the secondary panel 30" is connected to the structural bracket 40" for movement between an open position to allow access to the cavity 20 under the secondary panel 30" and a closed position.

Both the retractable panel 36" and the secondary panel 30" may include a beveled corner 62", as shown in FIG. 9. The beveled corner 62" of the retractable panel 36" and the secondary panel 30" follow the general contours of the structural member 14 in the retracted position, and form a notch in the extended position. The beveled corner 62" and the structural member 14 are so designed to allow unimpeded egress and ingress of a passenger through a small opening of a vehicle. In a vehicle with a larger opening, the retractable panel 36 may be designed with a sharper corner.

Each of the elements of the load floor systems 10, 10', and 10" may be made from conventional materials and with conventional methods. For example, the secondary panels 30, 30', and 30" and the retractable panels 36, 36', and 36" may be stamped from steel. Other materials, such as plastics, aluminum, and fiber composites, may be used in the interest of weight and cost reduce so long as the structural aspects of the load floor system are maintained.

The above discussion discloses and describes three preferred embodiments of the present invention. It is to be understood that the invention is not limited to the exact construction illustrated and described above, but that various changes may be made if not thereby departing from the scope of the invention as defined in the following claims.

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We claim:

 A load floor system for a vehicle with a seat assembly, a structural member under the seat assembly, and a floor space adjacent the seat assembly, said load floor system comprising:

a retractable panel coupled to the structural member;

- a first link coupled to said retractable panel; and
- a second link coupled to said retractable panel;

such that said retractable panel, said first link, and said second link cooperate as a portion of a four-bar mechanism to translate said retractable panel from a retracted position under the seat assembly to an extended position over the floor space thereby forming a load floor.

- 2. The load floor system of Claim 1 further comprising a leg panel extending from said retractable panel.
- 3. The load floor system of Claim 1 wherein said retractable panel defines a beveled corner to allow unimpeded egress and ingress of a passenger.
- 4. The load floor system of Claim 1 further comprising a secondary panel coupled to said retractable panel and to said structural member, said secondary panel being located under said retractable panel when in the retracted position and adjacent said retractable panel when in the extended position.
- 5. The load floor system of Claim 4 wherein said first link is pivotally connected to said retractable panel, and said second link is pivotally connected to said retractable panel.

- 6. The load floor system of Claim 5 wherein said first link is pivotally connected to said secondary panel, and said second link is pivotally connected to said secondary panel, such that said retractable panel, said first link, said secondary panel, and said second link cooperate as the four-bar mechanism.
- 7. The load floor system of Claim 5 wherein said first link is pivotally connectable to the structural member, and said second link is pivotally connectable to the structural member, such that said retractable panel, said first link, the structural member, and said second link cooperate as the four-bar mechanism.
- 8. The load floor system of Claim 7 wherein said first link is pivotally connectable to a front side of the structural member, and said second link is pivotally connectable to a back side of the structural member.
- 9. The load floor system of Claim 4 wherein said retractable panel is pivotally connected to said secondary panel about a first axis, said first link is pivotally connected to the secondary panel about a second axis, said second axis being radially displaced from said first axis, and said second link is pivotally connected to said retractable panel and pivotally connected to said first link, such that said retractable panel, said second link, said first link, and said secondary panel between said first axis and said second axis cooperate as the four-bar mechanism.
- 10. The load floor system of Claim 9 further comprising a leg panel connected to said second link, such that said leg panel nests adjacent said retractable panel in the retracted position and extends from said retractable panel to the vehicle in the extended position.
- 11. The load floor system of Claim 4 further comprising an access panel connected to said secondary panel for movement between an open position to allow access to a space under said secondary panel and a closed position.

12. The load floor system of Claim 4 wherein said secondary panel is connected to the vehicle for movement between an open position to allow access to a space under said secondary panel and a closed position.

13. A load floor system for a vehicle with a seat assembly, a structural member under the seat assembly, and a floor space adjacent the seat assembly, said load floor system comprising:

a secondary panel connectable to the vehicle under the seat assembly;

a retractable panel pivotally connected to said secondary panel about a first axis;

a first link pivotally connected to said secondary panel about a second axis, said second axis being radially displaced from said first axis; and

a second link pivotally connected to said retractable panel and pivotally connected to said first link;

such that said retractable panel, said second link, said first link, and said secondary panel between said first axis and said second axis cooperate as a four-bar mechanism to translate said retractable panel from a retracted position over said secondary panel and under said seat assembly to an extended position adjacent said secondary panel and over the floor space thereby forming a load floor.

- 14. The load floor system of Claim 13 further comprising a leg panel connected to said second link, such that said leg panel nests adjacent said retractable panel in the retracted position and extends from said retractable panel to the vehicle in the extended position.
- 15. The load floor system of Claim 13 wherein said retractable panel defines a beveled corner to allow unimpeded egress and ingress of a passenger.
- 16. The load floor system of Claim 13 wherein said secondary panel is connected to the vehicle for movement between an open position to allow access to a space under said secondary panel and a closed position.

- 17. A load floor system for a vehicle with a seat assembly, a structural member under the seat assembly, and a floor space adjacent the seat assembly, said load floor system comprising;
 - a retractable panel coupled to the structural member; and
- a translating means for translating said retractable panel from a retracted position under the seat assembly to an extended position over the floor space thereby forming a load floor.
 - 18. The load floor system of Claim 17 further comprising a leg panel extending from said retractable panel.
 - 19. The load floor system of Claim 17 wherein said retractable panel defines a beveled corner to allow unimpeded egress and ingress of a passenger.
 - 20. The load floor system of Claim 17 further comprising a secondary panel coupled to said retractable panel and to said structural member, said secondary panel being located under said retractable panel when in the retracted position and adjacent said retractable panel when in the extended position.

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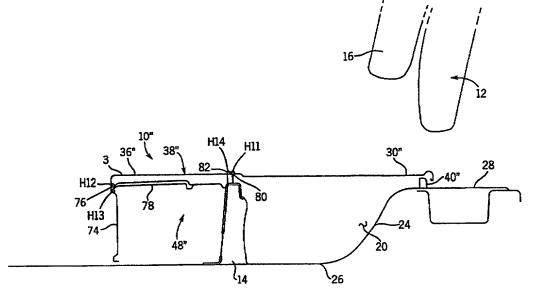
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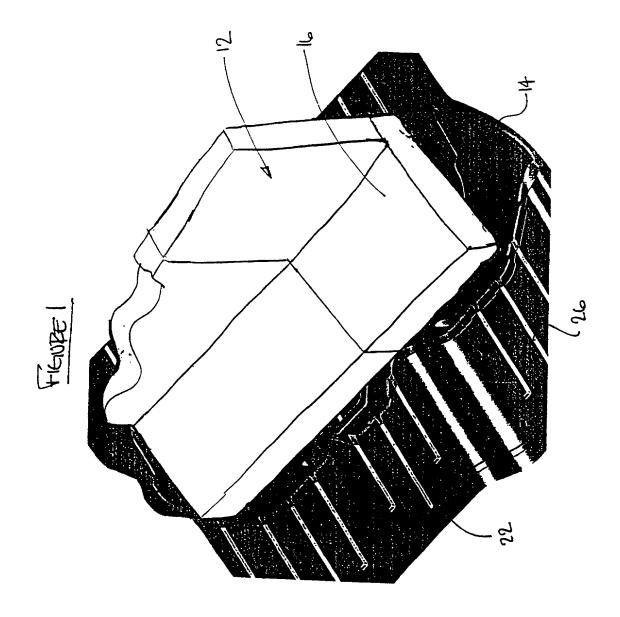
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For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: LOAD FLOOR SYSTEM



(57) Abstract: A load floor system (10) for a vehicle with a seat assembly, a structural member under the seat assembly, and a floor space adjacent the seat assembly. The load floor system (10) includes a retractable panel coupled to the structural member, a first link coupled to the retractable panel, and a second link coupled to the retractable panel (14). The retractable panel (14), the first link, and the second link cooperate as a portion of a four-bar mechanism to translate the retractable panel from a retracted position under the seat assembly to an extended position over the floor space thereby forming a load floor (38).

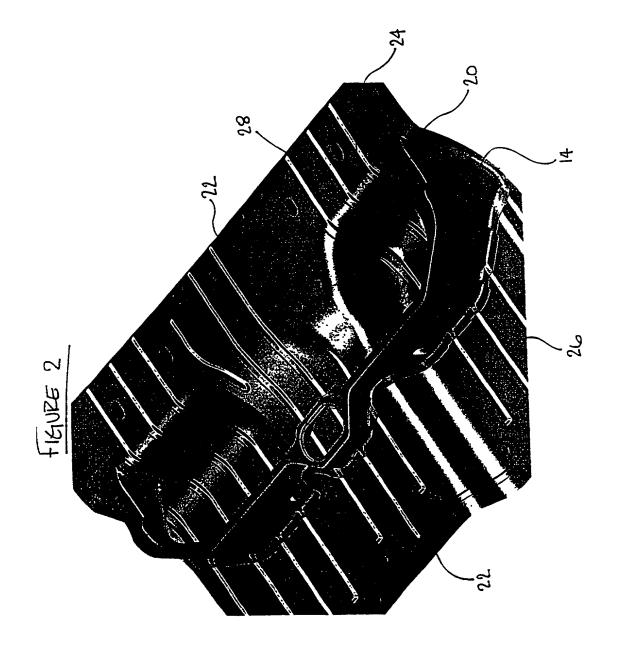


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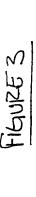
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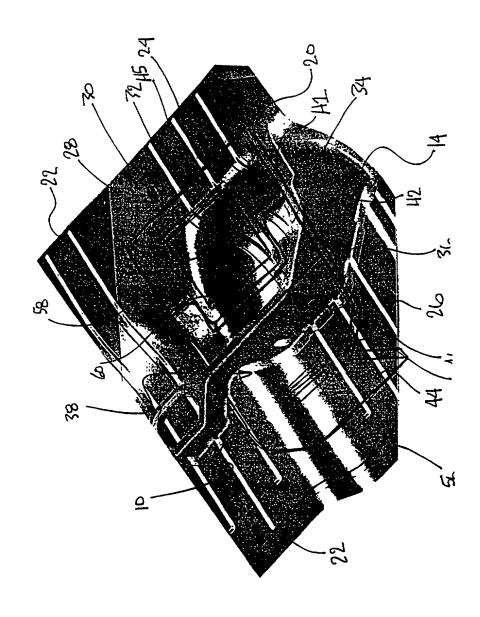
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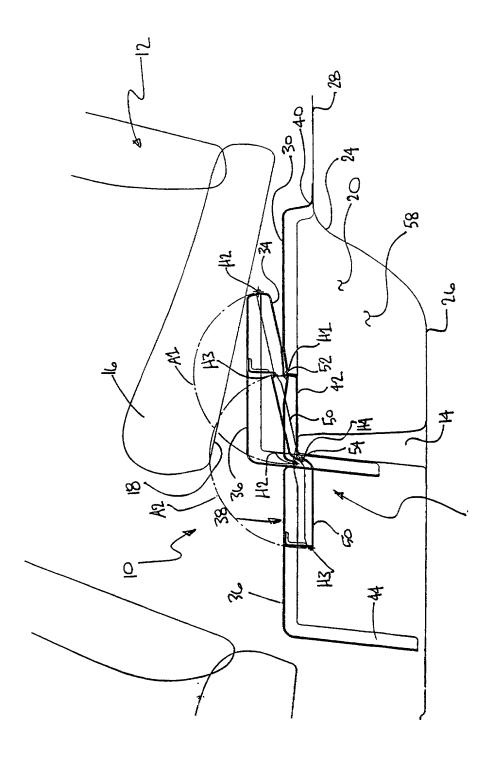


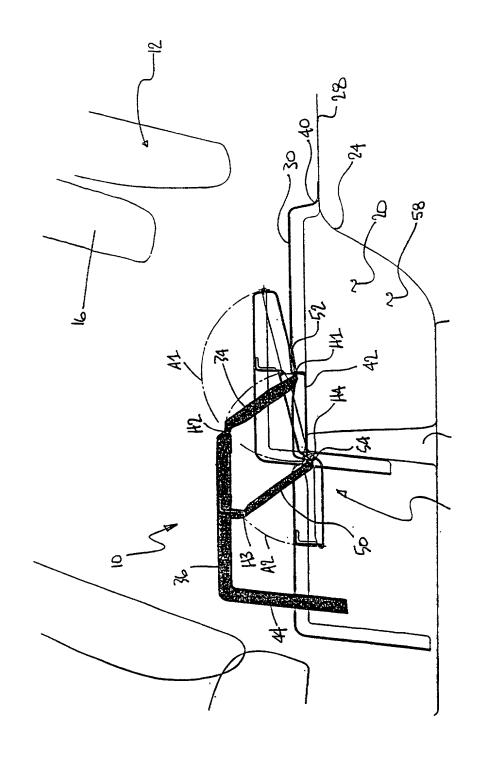
FIGURE 4

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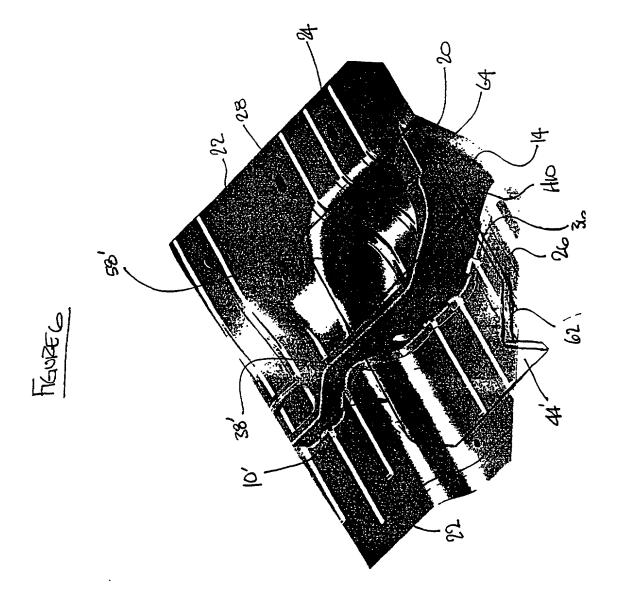
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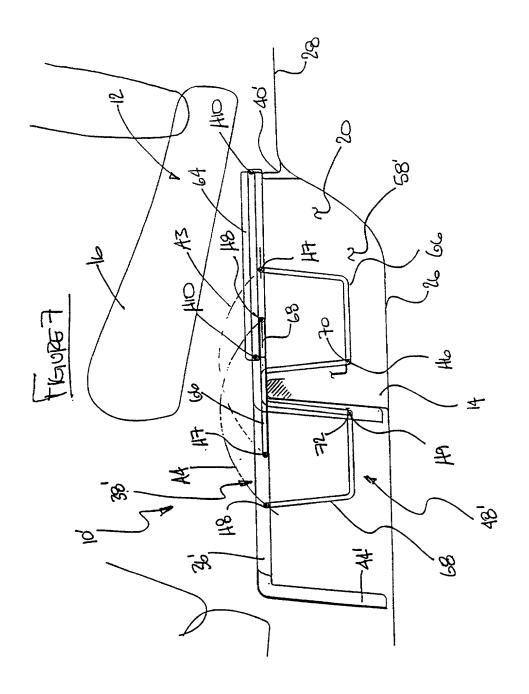
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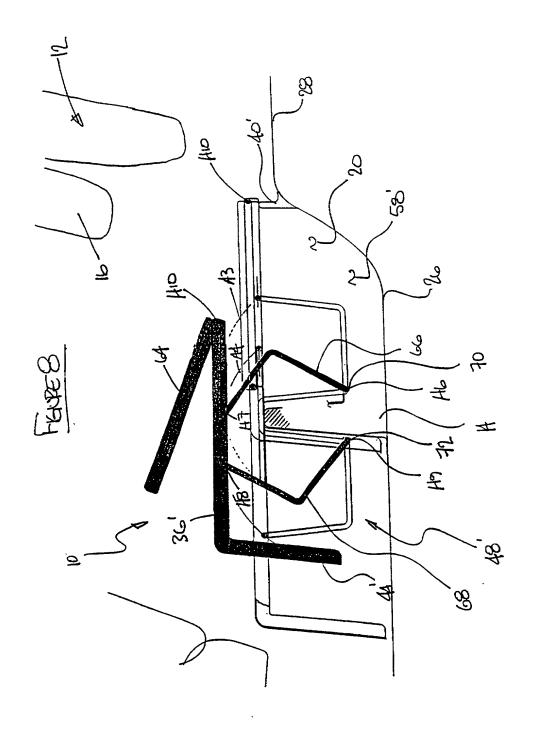
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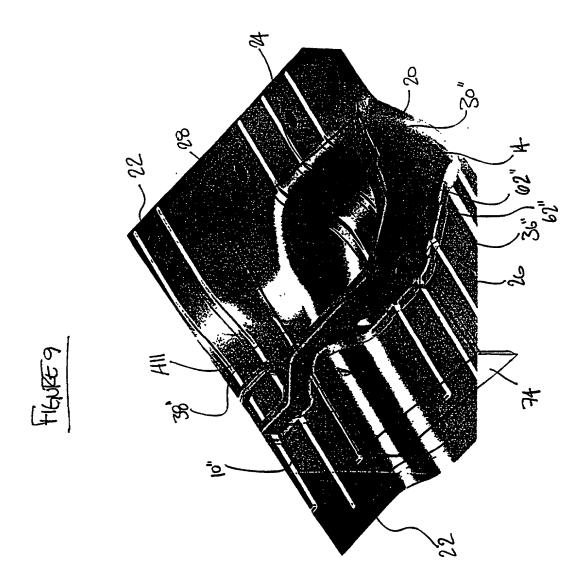


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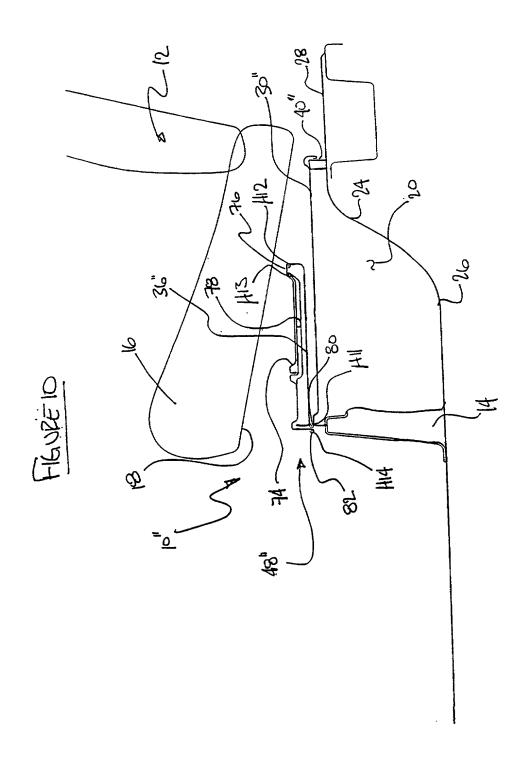


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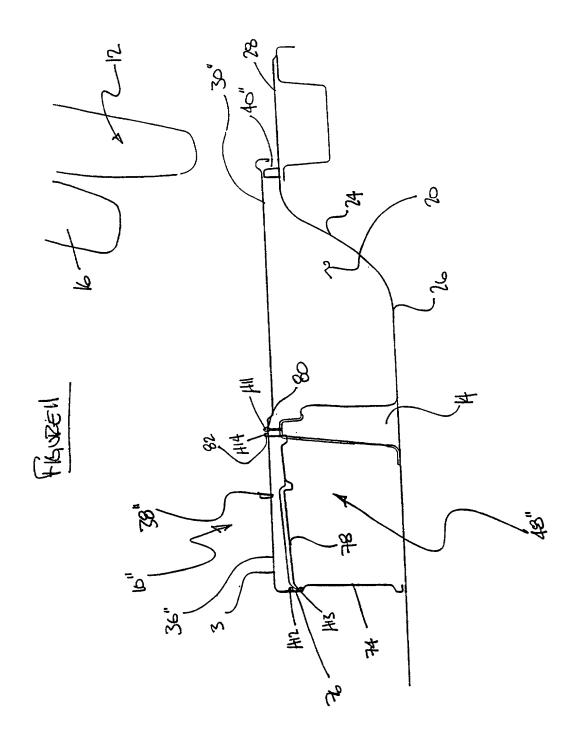


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As a below named inventor, I HEREBY DECLARE:

THAT my residence, post office address, and citizenship are as stated below next to my name;

THAT I believe I am the original, first, and sole inventor (if only one inventor is named below) or an original, first, and joint inventor (if plural inventors are named below or in an attached Declaration) of the subject matter which is claimed and for which a patent is sought on the invention entitled

LOAD FLOOR SYSTEM (Attorney Docket No. 026032-3872) the specification of which (check one) is attached hereto. X was filed on June 7, 2000 as United States Application Number or PCT International Application Number PCT/US00/40129.

THAT I do not know and do not believe that the same invention was ever known or used by others in the United States of America, or was patented or described in any printed publication in any country, before I (we) invented it;

THAT I do not know and do not believe that the same invention was patented or described in any printed publication in any country, or in public use or on sale in the United States of America, for more than one year prior to the filing date of this United States application;

THAT I do not know and do not believe that the same invention was first patented or made the subject of an inventor's certificate that issued in any country foreign to the United States of America before the filing date of this United States application if the foreign application was filed by me (us), or by my (our) legal representatives or assigns, more than twelve months (six months for design patents) prior to the filing date of this United States application;

THAT I have reviewed and understand the contents of the above-identified specification, including the claim(s), as amended by any amendment specifically referred to above;

THAT I believe that the above-identified specification contains a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the invention, and sets forth the best mode contemplated by me of carrying out the invention; and

THAT I acknowledge the duty to disclose to the U.S. Patent and Trademark Office all information known to me to be material to patentability as defined in Title 37, Code of Federal Regulations, §1.56.

I HEREBY CLAIM foreign priority benefits under Title 35, United States Code §119(a)-(d) or § 365(b) of any foreign application(s) for patent or inventor's certificate, or §365(a) of any PCT international application which designated at least one country other than the United States of America, listed below and have also identified below any foreign application for patent or inventor's certificate or of any PCT international application having a filing date before that of the application on which priority is claimed.

Prior Foreign Application Number	Country	Foreign Filing Date	Priority Claimed?	Certified Copy Attached?

I HEREBY CLAIM the benefit under Title 35, United States Code § 119(e) of any United States provisional application(s) listed below.

U.S. Provisional Application Number	Filing Date

I HEREBY CLAIM the benefit under Title 35, United States Code, §120 of any United States application(s), or § 365(c) of any PCT international application designating the United States of America, listed below and, insofar as the subject matter of each of the claims of this application is not disclosed in the prior United States or PCT International application in the manner provided by the first paragraph of Title 35, United States Code, § 112, I acknowledge the duty to disclose information which is material to patentability as defined in Title 37, Code of Federal Regulations, § 1.56 which became available between the filing date of the prior application and the national or PCT international filing date of this application.

U.S. Parent Application Number	PCT Parent Application Number	Parent Filing Date	Parent Patent Number

I HEREBY APPOINT the following registered attorneys and agents of the law firm of FOLEY & LARDNER:

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to have full power to prosecute this application and any continuations, divisions, reissues, and reexaminations thereof, to receive the patent, and to transact all business in the United States Patent and Trademark Office connected therewith.

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I UNDERSTAND AND AGREE THAT the foregoing attorneys and agents appointed by me to prosecute this application do not personally represent me or my legal interests, but instead represent the interests of the legal owner(s) of the invention described in this application.

I FURTHER DECLARE THAT all statements made herein of my own knowledge are true, and that all statements made on information and belief are believed to be true; and further that these statements were made with the knowledge that willful false statements and the like so made are punishable by fine or imprisonment, or both, under Section 1001 of Title 18 of the United States Code, and that such willful false statements may jeopardize the validity of the application or any patent issuing thereon.

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Citizenship
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Date

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